



Substitute PTO/SB/08A (07-05)
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Substitute for form 1449A/PTO (Modified) INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)			Complete if Known		
			Application Number	10/714,489	
			Filing Date	November 14, 2003	
			First Named Inventor	DUONG, Hau	
			Art Unit	1634	
			Examiner Name	LU, Frank Wei Min	
Sheet	1	of	15	Attorney Docket Number	A-65686-2 (463037-00268)

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
<i>u</i>	A1	4,704,193	11-03-1987	Bowers et al.	
	A2	4,707,352	11-17-1987	Stavrianopoulos	
	A3	4,707,440	11-17-1987	Stavrianopoulos	
	A4	4,711,955	12-08-1987	Ward et al.	
	A5	4,755,458	07-55-1988	Rabbani et al.	
	A6	4,787,963	11-29-1988	MacConnell	
	A7	4,840,893	06-20-1989	Hill et al.	
	A8	4,849,513	07-18-1989	Smith et al.	
	A9	4,868,103	09-19-1989	Stavrianopoulos et al.	
	A10	4,882,013	11-21-1989	Turner et al.	
	A11	4,894,325	01-16-1990	Englehardt et al.	
	A12	4,943,523	07-24-1990	Stavrianopoulos	
	A13	4,945,045	07-24-1984	Forrest et al.	
	A14	4,952,685	08-28-1990	Stavrianopoulos	
	A15	4,964,972	10-23-1990	Sagiv et al.	
	A16	4,994,373	02-19-1991	Stavrianopoulos	
	A17	5,002,885	33-26-1991	Stavrianopoulos	
	A18	5,013,831	05-07-1991	Stavrianopoulos	
	A19	5,066,372	11-19-1991	Weetall	
	A20	5,082,830	01-21-1992	Brakel et al.	
	A21	5,089,112	02-18-1992	Skotheim et al.	
	A22	5,175,269	12-29-1992	Stavrianopoulos	
	A23	5,180,968	01-19-1993	Bruckenstein et al.	
	A24	5,241,060	8-31-1993	Englehardt et al.	
	A25	5,242,828	09-07-1993	Bergstrom et al.	
✓	A26	5,278,043	01-11-1995	Bannwarth et al.	

Examiner Signature	<i>Frank Wei Min</i>	Date Considered	8/21/2006
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<i>lu</i>	A27	5,312,527	05-17-1994	Mikkelsen et al.	
	A28	5,328,824	07-12-1994	Ward et al.	
	A29	5,356,786	10-18-1994	Heller et al.	
	A30	5,391,272	02-21-1995	O'Daly et al.	
	A31	5,403,451	04-04-1995	Riviello et al.	
	A32	5,436,161	07-25-1995	Bergstrom et al.	
	A33	5,443,701	08-22-1995	Willner et al.	
	A34	5,449,767	09-12-1995	Ward et al.	
	A35	5,472,881	12-05-1995	Beebe et al.	
	A36	5,476,928	12-19-1995	Ward et al.	
	A37	5,495,908	01-21-1997	Fawcett et al.	
	A38	5,552,270	09-03-1996	Khrapko et al.	
	A39	5,565,552	10-15-1996	Magda et al.	
	A40	5,571,568	11-05-1996	Ribi et al.	
	A41	5,573,906	11-12-1996	Bannwarth et al.	
	A42	5,591,578	01-07-1997	Meade et al.	
	A43	5,601,982	02-11-1997	Sargent et al.	
	A44	5,620,850	04-15-1997	Bamdad et al.	
	A45	5,622,821	04-22-1997	Selvin et al.	
	A46	5,632,957	05-27-1997	Heller et al.	
	A47	5,650,061	07-22-1997	Kuhr et al.	
	A48	5,700,667	12-23-1997	Marble et al.	
	A49	5,705,346	01-06-1998	Okamoto et al.	
	A50	5,705,348	01-06-1998	Meade et al.	
	A51	5,741,700	04-01-1998	Ershov et al.	
<input checked="" type="checkbox"/>	A52	5,756,050	05-26-1998	Ershov et al.	

Examiner Signature	<i>Frank Wei Min Lu</i>	Date Considered	8/21/2006
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<i>[Signature]</i>	A53	5,770,369	06-23-1998	Meade et al.	<i>[Handwritten line]</i>
	A54	5,770,721	06-23-1998	Ershov et al.	<i>[Handwritten line]</i>
	A55	5,776,672	07-07-1998	Hashimoto et al.	<i>[Handwritten line]</i>
	A56	5,780,234	07-14-1998	Meade et al.	<i>[Handwritten line]</i>
	A57	5,795,453	08-18-1998	Gilmartin	<i>[Handwritten line]</i>
	A58	5,824,473	10-20-1998	Meade et al.	<i>[Handwritten line]</i>
	A59	5,837,859	11-17-1998	Teoule et al.	<i>[Handwritten line]</i>
	A60	5,849,486	12-15-1998	Heller et al.	<i>[Handwritten line]</i>
	A61	5,851,772	12-15-1998	Mirzabekov et al.	<i>[Handwritten line]</i>
	A62	5,874,046	02-23-1999	Megerle	<i>[Handwritten line]</i>
	A63	5,952,172	09-14-1999	Meade et al.	<i>[Handwritten line]</i>
	A64	5,976,802	11-02-1999	Ansorge et al.	<i>[Handwritten line]</i>
	A65	6,013,170	01-11-2000	Meade	<i>[Handwritten line]</i>
	A66	6,013,459	01-11-2000	Meade	<i>[Handwritten line]</i>
	A67	6,060,023	05-09-2000	Maracas	<i>[Handwritten line]</i>
	A68	6,060,327	05-09-2000	Keen	<i>[Handwritten line]</i>
	A69	6,071,699	06-06-2000	Meade et al.	<i>[Handwritten line]</i>
	A70	6,087,100	07-11-2000	Meade et al.	<i>[Handwritten line]</i>
	A71	6,090,933	07-18-2000	Kayyem et al.	<i>[Handwritten line]</i>
	A72	6,096,273	08-01-2000	Kayyem et al.	<i>[Handwritten line]</i>
	A73	6,096,825	08-01-2000	Garnier et al.	<i>[Handwritten line]</i>
	A74	6,107,080	08-22-2000	Lennox	<i>[Handwritten line]</i>
	A75	6,153,737	11-28-2000	Manoharan et al.	<i>[Handwritten line]</i>
	A76	6,177,250 B1	01-23-2001	Meade et al.	<i>[Handwritten line]</i>
	A77	6,180,352 B1	01-30-2001	Meade et al.	<i>[Handwritten line]</i>
	A78	6,197,515 B1	03-06-2001	Bamdad et al.	<i>[Handwritten line]</i>
✓	A79	6,200,761 B1	03-13-2001	Meade et al.	<i>[Handwritten line]</i>

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u	A80	6,203,758 B1	03-20-2001	Marks et al.	
	A81	6,207,369 B1	03-27-2001	Wohlstadter et al.	
	A82	6,221,583 B1	04-24-2001	Kayyem et al.	
	A83	6,232,062 B1	05-15-2001	Kayyem et al.	
	A84	6,238,870 B1	05-29-2001	Meade et al.	
	A85	6,248,229 B1	06-19-2001	Meade	
	A86	6,258,545 B1	07-10-2001	Meade et al.	
	A87	6,264,825 B1	07-24-2001	Blackburn et al.	
	A88	6,268,149 B1	07-31-2001	Meade et al.	
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	A90	6,277,576 B1	08-21-2001	Meade et al.	
	A91	6,290,839 B1	09-18-2001	Kayyem et al.	
	A92	6,306,584 B1	10-23-2001	Bamdad	
	A93	6,322,979 B1	11-27-2001	Bamdad et al.	
	A94	6,479,240 B1	11-12-2002	Kayyem	
	A95	6,495,323 B1	12-17-2002	Kayyem et al.	
	A96	6,686,150 B1	02-03-2004	Blackburn et al.	
A97	6,740,518 B1	05-24-2004	Duong et al.		
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A99	6,977,151 B2	12-20-2005	Kayyem et al.		
A100	7,014,992 B1	03-21-2006	Kayyem et al.		
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A103	2001-0046679 A1	11-15-2001	Meade et al.		
A104	2002-0006643 A1	01-17-2002	Kayyem et al.		
A105	2003-0148328 A1	08-07-2003	Kayyem et al.		
A106	2003-0150723 A1	08-14-2003	Kayyem et al.		
✓	A107	2004-0010890 A1	05-27-2004	Meade et al.	

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<i>h</i>	A108	2005-0003399 A1	01-06-2005	Blackburn et al.	
<i>h</i>	A109	2005-0053962 A1	03-10-2005	Irvine et al.	

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<i>h</i>	B1	CA 2,090,904	09-24-1993	Hoffman LaRoche		
	B2	EP 0 229 943 A1	07-29-1987	Molecular Biosystems, Inc.		
	B3	EP 0 234 938 A2	02-26-1987	Cranfield Institute of Technology		
	B4	EP 0 599 337 A1	01-16-1994	Canon K.K.		
	B5	EP 0 063 879 A1	11-03-1982	Yale University		
	B6	EP 0 668 502 A2	08-23-1995	Yissum Research Development		
	B7	EP 0 515 615 A1	09-04-1996	Boehringer Mannheim		
	B8	JP 63-238166	10-04-1988	Mitsubishi Chemical, Ltd.		
	B9	JP 6-041183	02-15-1994	Mitsubishi Chemical, Ltd.		
	B10	WO 86/05815 A1	10-09-1986	Genetics International, Inc.		
	B11	WO 90/05303 A1	05-17-1990	Pharmacia AB		
	B12	WO 90/05732 A1	05-31-1990	The Trustees of Columbia University in the City of New York		
	B13	WO 92/10757 A1	06-25-1992	Boehringer Mannheim		
	B14	WO 93/10267 A1	05-27-1993	Igen, Inc.		
	B15	WO 93/22678 A2/A3	11-11-1993	Massachusetts Institute of Technology		
	B16	WO 93/23425 A1	11-25-1993	The Ontario Cancer Institute		
	B17	WO 94/22889 A1	10-13-1994	Cis Bio International		
	B18	WO 95/15971 A2/A3	06-15-1995	California Institute of Technology		
✓	B19	WO 96/40712 A1	12-19-1996	California Institute of Technology		

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<i>lu</i>	B20	WO 97/01646 A1	01-16-1997	University of North Carolina		
	B21	WO 97/27329 A1	07-31-1997	University of North Carolina		
	B22	WO 97/31256 A1	08-28-1997	Comell Research Foundation		
	B23	WO 97/41425 A1	11-06-1997	Pence, Inc.		
	B24	WO 97/44651 A1	11-27-1997	Australia Membrane and Biotechnology Institute		
	B25	WO 97/46568 A1	12-11-1997	California Institute of Technology		
	B26	WO 98/12539 A1	03-26-1998	Meso Scale Technologies, LLC		
	B27	WO 98/20162 A2/A3	05-14-1998	Clinical Micro Sensors, Inc.		
	B28	WO 98/27229 A1	06-25-1998	The University of Chicago		
	B29	WO 98/28444 A2/A3	07-02-1998	The University of Chicago		
	B30	WO 98/31839 A2/A3	07-23-1998	President & Fellows of Harvard College		
	B31	WO 98/35232 A2/A3	08-13-1998	University of North Carolina at Chapel Hill		
	B32	WO 98/51823 A1	11-19-1998	Mosaic Technologies LLC		
	B33	WO 98/57158 A1	12-17-1998	Clinical Micro Sensors, Inc.		
	B34	WO 98/57159 A1	12-17-1998	Clinical Micro Sensors, Inc.		
	B35	WO 99/14596 A1	03-25-1999	AB Sangtec Medical		
	B36	WO 99/29711 A1	06-17-1999	Nanogen Inc.		
	B37	WO 99/37819 A2/A3	07-08-1999	Clinical Micro Sensors, Inc.		
	B38	WO 99/57317 A2/A3	11-11-1999	Clinical Micro Sensors, Inc.		
	B39	WO 99/57319 A2/A3	11-11-1999	Clinical Micro Sensors, Inc.		
<i>✓</i>	B40	WO 99/67425 A2/A3	12-29-1999	Clinical Micro Sensors, Inc.		

Examiner Signature	<i>lu</i>	Date Considered	8/21/2006
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Substitute for form 1449/APTO (Modified)				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	10/714,489
				Filing Date	November 14, 2003
				First Named Inventor	DUONG, Hau
				Art Unit	1634
				Examiner Name	LU, Frank Wei Min
Sheet	7	of	15	Attorney Docket Number	A-65686-2 (463037-00268)

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		
<i>u</i>	C1	AIZAWA, M., et al., "Integrated molecular systems for biosensors," <i>Sens. Actuators B Chem.</i> 24(1&3):1-5 (Mar. 1995).		
	C2	ALBERS, W., et al., "Design of novel molecular wires for realizing long-distance electron transfer," <i>Bioelectrochem. Bioenerg.</i> 42(1):25-33 (Apr. 1997).		
	C3	ALLEMAN, K.S., et al., "Electrochemical rectification at a monolayer-modified electrode," <i>J. Phys. Chem.</i> 100:17050-17058 (1996).		
	C4	ARKIN, M., et al., "Evidence for photoelectron transfer through DNA intercalation," <i>J. Inorg. Biochem. Abstr.</i> , 6th Int. Conf. Bioinorg. Chem. 51(1&2):526 (1993).		
	C5	BAIN, C., et al., "Formation of monolayers by the coadsorption of thiols on gold: variation in the length of the alkyl chain," <i>J. Am. Chem. Soc.</i> 111(18):7164-7175 (Aug. 1989).		
	C6	BAMDAD, C., "A DNA self-assembled monolayer for the specific attachment of unmodified double or single stranded DNA," <i>Biophys. J.</i> 75:1997-2003 (Oct. 1988).		
	C7	BARISCI, J.N., et al., "Conducting Polymer Sensors," <i>Trends Biotechnol.</i> 4(9):307-311 (Sep. 1996).		
	C8	BAUM, R. M., "Views on biological, long-range electron transfer stir debate," <i>Chem. Eng. News</i> , pp 20-23 (1993).		
	C9	BEATTIE, K., et al., "Genosensor Technology," <i>Clin. Chem.</i> 39(4):719-722 (1993).		
	C10	BECHTOLD, R., et al., "Ruthenium-modified horse heart cytochrome c: effect of pH and ligation on the rate of intramolecular electron transfer between ruthenium(II) and heme(III)," <i>J. Phys. Chem.</i> 90(16):3800-3804 (Jul. 1986).		
	C11	BIDAN, G., "Electroconducting conjugated polymers: new sensitive matrices to build up chemical or electrochemical sensors. A Review," <i>Sens. Actuators B</i> 6:45-56 (1992).		
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	C15	BRODOLIN, K., et al., "Conformational changes in <i>E. coli</i> RNA polymerase during promoter recognition," <i>Nucleic Acids Res.</i> 24(24):5748-5753 (Dec. 1993).		
	C16	BRUN, A., et al., "Photochemistry of intercalated quaternary diazaaromatic salts," <i>J. Am. Chem. Soc.</i> 113(21):8153-8159 (Oct. 1991).		
✓	C17	BUMM, L.A., et al., "Are single molecular wires conducting?," <i>Science</i> 271(5226):1705-1707 (Mar. 1996).		

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				Examiner Name	LU, Frank Wei Min
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

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	C18	CANTOR, C.R., et al., "Report on the sequencing by hybridization workshop," <i>Genomics</i> 13(4):1378-1383 (Aug. 1992).		
	C19	CARR, J., et al., "Novel electrochemical sensors for neutral molecules," <i>Chem. Commun.</i> 1649-1650 (1997).		
	C20	CARTER, M., et al., "Voltammetric studies of the interaction of metal chelates with DNA. 2. Tris-chelated complexes of cobalt(III) and Iron(II) with 10-phenanthroline and 2,2'-bipyridine," <i>J. Am. Chem. Soc.</i> 111(24):8901-8911 (Nov. 1989).		
	C21	CHANG, I-Jy, et al., "High-driving-force electron transfer in metalloproteins: Intramolecular oxidation of ferrocyanochrome c by Ru(2,2'-bpy) ₂ (im)(His-33) ³⁺ ," <i>J. Am. Chem. Soc.</i> 113(18):7056-7057 (Aug. 1991).		
	C22	CHEEVER, E., et al., "Fast Fourier transform-based correlation of DNA sequences using complex plane encoding," <i>Comput. Appl. Biosci.</i> 7(2):143-154 (Apr. 1991).		
	C23	CHIDSEY, C., et al., "Coadsorption of ferrocene-terminated and unsubstituted alkanethiols on gold" electroactive self-assembled monolayers," <i>J. Am. Chem. Soc.</i> 112(11):4301-4306 (May 1990).		
	C24	CHIDSEY, C., et al., "Free energy and temperature dependence of electron transfer at the metal electrolyte interface," <i>Science</i> 251:919-923 (1991).		
	C25	CHRISEY, C., et al., "Covalent attachment of synthetic DNA to self-assembled monolayer films," <i>Nucleic Acids Res.</i> 24(15):3031-3039 (1996).		
	C26	CLERY, D., "DNA Goes Electric," <i>Science</i> 267(5202):1270 (Mar. 1995).		
	C27	DAVIS, L.M., et al., "Electron donor properties of the antitumour drug amsacrine as studied by fluorescence quenching of DNA-bound ethidium," <i>Chem.-Biol. Interact.</i> 62:45-58 (1987).		
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	C32	DEINHAMMER, R.S., et al., "Electrochemical oxidation of amine-containing compounds: a route to the surface modification of glassy carbon electrodes," <i>Langmuir</i> 10(4):1306-1313 (Apr. 1994).		
	C33	DONTA, N., et al., "Generation of biotin/avidin/enzyme nanostructures with maskless photolithography," <i>Anal. Chem.</i> 69(14):2619-2625 (Jul. 1997).		


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	C34	DREYER, G.B., et al., "Sequence-specific cleavage of single-stranded DNA: Oligodeoxynucleotide-EDTA Fe(II)," <i>Proc. Natl. Acad. Sci. USA</i> 82(4):968-972 (Feb. 1985).		
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	C42	FOTIN, A., et al., "Parallel thermodynamic analysis of duplexes on oligodeoxynucleotide microchips," <i>Nucleic Acids Res.</i> 216(6):1515-1521 (Mar. 1998).		
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	C47	FROMHERZ, P., et al., "Photoinduced electron transfer in DNA matrix from intercalated ethidium to condensed methylviologen," <i>J. Am. Chem. Soc.</i> 108(17):5361-5362 (Aug. 1986).		
	C48	GARDNER, J., et al., "Application of conducting polymer technology in microsystems," <i>Sens. Actuators A</i> 51(1):57-66 (Oct. 1995).		
	C49	GLOVER, D., et al., "Alternating current polarography in the harmonic multiplex mode," <i>Anal. Chem.</i> 45(11):1869-1877 (Sep. 1973).		

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				Filing Date	November 14, 2003
				First Named Inventor	DUONG, Hau
				Art Unit	1634
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<i>u</i>	C50	GREGG, B.A., et al., "Cross-linked redox gels containing glucose oxidase for amperometric biosensor applications," <i>Anal. Chem.</i> , 62(3):258-263 (Feb. 1990).		
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	C54	HASHIMOTO, K., et al., "Sequence-specific gene detection with a gold electrode modified with dna probes and an electrochemically active dye," <i>Anal. Chem.</i> 66(21):3830-3833 Nov. (1994).		
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<i>✓</i>	C65	KATRITZKY, A., et al., "Pyridylethylation - a new protection method for active hydrogen compounds," <i>Tetrahedron Lett.</i> 25(12):1223-1226 (1984).		

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<i>u</i>	C66	KELLY, S.O., et al., "Electrochemistry of methylene blue bound to a DNA-modified electrode," <i>Bioconjugate Chem.</i> 8:31-37 (1997).			✓
	C67	KOJIMA, H., et al., "A DNA probe of ruthenium bipyridine complex using photocatalytic activity," <i>Chem. Lett.</i> 18:1889-1982 (1989).			✓
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	C69	LANGEN, R., et al., "Electron tunneling in proteins: coupling through a β strand," <i>Science</i> 268(5218):1733-1735 (Jun. 1995).			✓
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	C71	LAVIRON, E., "A.C. polarography and Faradaic Impedance of strongly adsorbed electroactive species. part III: theoretical complex plane analysis for a surface redox reaction," <i>J. Electroanal. Chem.</i> 105(1):35-42 (Dec. 1979).			✓
	C72	LEE, G., et al., "Direct measurement of the forces between complementary strands of DNA," <i>Science</i> 266(5186):771-773 (Nov. 1994).			✓
	C73	LENHARD, J.R., et al., "Part VII covalent bonding of a reversible- electrode reactant to pt electrodes using an organosilane reagent" <i>J. Electroanal. Chem.</i> 78(1):195-201 (May 1977).			✓
	C74	LINCOLN, P., et al., "Short circuiting the molecular wire: cooperative binding of Δ -[Ru(phen)2dppz]2+ and Δ -[Ru(phen)2bipy]3+ to DNA," <i>J. Am. Chem. Soc.</i> 119(6):1454-1455 (Feb. 1997).			✓
	C75	LIVSHITS, M., et al., "Theoretical analysis of the kinetics of DNA hybridization with gel-immobilized oligonucleotides," <i>Biophys. J.</i> 71:2795-2801 (Nov. 1996).			✓
	C76	MASKOS, U., et al., "Oligonucleotide hybridisations on glass supports: a novel linker for oligonucleotide synthesis and hybridisation properties of oligonucleotides synthesised <i>in situ</i> ," <i>Nucleic Acids Res.</i> 20(7):1679-1684 (Apr. 1992).			✓
	C77	MAZZOCCHI, P., et al., "Photolysis of N-(2-methyl-2-propenyl)phthalimide in methanol. evidence supporting radical-radical coupling of a photochemically generated radical ion pair," <i>J. Am. Chem. Soc.</i> 108(18):5361-5362 (Aug. 1986).			✓
	C78	McGEE, D., et al., "2'-amino-2'-deoxyuridine via an intramolecular cyclization of a trichloroacetimidate," <i>J. Org. Chem.</i> 61(2):781-785 (Jan. 1996).			✓
	C79	McGEE, D., et al., "Novel nucleosides via intramolecular functionalization of 2,2'-anhydrouridine derivatives," <i>Tetrahedron Lett.</i> 37(12):1995-1998 (Mar. 1996).			✓
✓	C80	MEADE, T., "Driving-force effects on the rate of long-range electron transfer in ruthenium-modified cytochrome c," <i>J. Am. Chem. Soc.</i> 111(12):4353-4356 (Jun. 1989).			✓

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				Art Unit	1634
				Examiner Name	LU, Frank Wei Min
Sheet	12	of	15	Attorney Docket Number	A-65686-2 (463037-00268)

NON PATENT LITERATURE DOCUMENTS				
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<i>u</i>	C81	MEADE, T., et al., "Electron transfer through DNA: site-specific modification of duplex DNA with ruthenium donors and acceptors," <i>Angew Chem. Int. Ed. Engl.</i> 34(3):352 (Feb. 1995).		✓
	C82	MESTEL, R., "Electron Highway' Points to Identity of DNA," <i>New Scientist</i> 145(1967):21 (Mar. 1995).		✓
	C83	MILLAN, K., et al., "Covalent immobilization of DNA onto glassy carbon electrodes," <i>Electroanalysis</i> 4(10):929-932 (1992).		✓
	C84	MILLAN, K., et al., "Sequence-selective biosensor for dna based on electroactive hybridization indicators," <i>Anal. Chem.</i> 65(17):2317-2323 (Aug. 1993).		✓
	C85	MILLAN, K., et al., "Voltammetric DNA biosensor for cystic fibrosis based on a modified carbon paste electrode," <i>Anal. Chem.</i> 66(18):2943-2948 (Sep. 1994).		✓
	C86	MILLER, C., "Absorbed ω -hydroxy thiol monolayers on gold electrodes: evidence for electron tunneling to redox species in solution," <i>J. Phys. Chem.</i> 95:877-886 (1991).		✓
	C87	MIRKIN, C., et al., "A DNA-based method for rationally assembling nanoparticles into macroscopic materials," <i>Nature</i> 382(6592):607-609 (Aug. 1996).		✓
	C88	MIRZABEKOV, A., et al., "DNA sequencing by hybridization - a megasequencing method and a diagnostic tool," <i>Trends Biotechnol.</i> 12(1):27-32 (Jan. 1994).		✓
	C89	MITCHELL, G., et al., "Programmed assembly of DNA functionalized quantum dots," <i>J. Am. Chem. Soc.</i> 121(35):8122-8123 (Sep. 1998).		✓
	C90	MUCIC, R., et al., "DNA-directed synthesis of binary nanoparticle network materials," <i>J. Am. Chem. Soc.</i> 120(48):12674-12675 (Dec. 1998).		✓
	C91	MUCIC, R., et al., "Synthesis and characterization of DNA with ferrocenyl groups attached to their 5'-termini: electrochemical characterization of a redox-active nucleotide monolayer," <i>Chem. Commun.</i> 4:555-557 (1996).		✓
	C92	MURPHY, C. J., et al., "Long-range photoinduced electron transfer through a DNA helix," <i>Science</i> 262:1025-1029 (1993).		✓
	C93	NEDERLOF, P., et al., "Quantification of fluorescence in situ hybridization signals by image cytometry," <i>Cytometry</i> 13(8):846-852 (1992).		✓
	C94	ORELLANA, G., et al., "Photoinduced electron transfer quenching of excited Ru(II) polypyridyls bound to DNA: The role of the nucleic acid double helix," <i>Photochem. Photobiol.</i> 54(4):499-509 (Oct. 1991).		✓
	C95	PALEČEK, E., "From polarography of DNA to microanalysis with nucleic acid-modified electrodes," <i>Electroanalysis</i> 8(1):7-14 (Jan. 1996).		✓
✓	C96	PARINOV, S., "DNA Sequencing by hybridization to microchip octa- and decanucleotides extended by stacked pentanucleotides," <i>Nucleic Acids Res.</i> 24(15):2998-3004 (Aug. 1996).		✓

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<i>[Signature]</i>	C97	PATERSON, D., "Electric genes: current flow in DNA could lead to faster genetic testing," <i>Sci. Am.</i> pp. 33-34 (May 1995).		
	C98	PROUDNIKOV, D., "Immobilization of DNA in polyacrylamide gel for the manufacture of DNA and DNA-oligonucleotide microchips," <i>Anal. Biochem.</i> 259(1):34-41 (May 1998).		
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	C101	REIMERS, J.R., et al., "Toward efficient molecular wires and switches: the brooker ions," <i>Biosystems</i> 35:107-111 (1995).		
	C102	RHODES, D., et al., "Helical periodicity of DNA determined by enzyme digestion," <i>Nature</i> 286(5773):573-578 (Aug. 1980).		
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	C104	SATO, Y., et al., "Unidirectional electron transfer at self-assembled monolayers of 11-ferrocenyl-1-undecanethiol on gold," <i>Bull. Chem. Soc. Jpn.</i> 66(4):1032-1037 (1993).		
	C105	SATYANARAYANA, S., et al., "Neither Δ- nor Λ-Tris(phenanthroline)ruthenium(II) binds to DNA by classical intercalation," <i>Biochemistry</i> 31(39):9319-9324 (Oct. 1992).		
	C106	SCHREIBER, A., et al., "Bis(purine) complexes of <i>trans</i> -a ₂ p ³ : preparation and x-ray structures of bis(9-methyladenine) and mixed 9-methyladenine, 9-methylguanine complexes and chemistry relevant to metal-modified nucleobase triples and quartets," <i>J. Am. Chem. Soc.</i> 118(4):124-132 (1996).		
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	C108	SCHUMM, J., et al., "Iterative divergent/convergent approach to linear conjugated oligomers by successive doubling of the molecular length: A rapid route to a 128 Å-long potential molecular wire," <i>Angew. Chem. Int. Ed. Engl.</i> 33(13):1360-1363 (Jul. 1994).		
	C109	SIGAL, G., et al., "A Self-assembled monolayer for the binding and study of histidine-tagged proteins by surface plasmon resonance," <i>Anal. Chem.</i> 68(3):490-497 (Feb. 1996).		
	C110	SINGHAL, P., et al., "Direct electrochemical detection of purin and pyrimidine-based nucleotides with sinusoidal voltammetry," <i>Anal. Chem.</i> 69(17):3552-2557 (Sep. 1997).		
<i>[Signature]</i>	C111	SINGHAL, P., et al., "Sinusoidal voltammetry for the analysis of carbohydrates at copper electrodes," <i>Anal. Chem.</i> 69(8):1662-1668 (Apr. 1997).		

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<i>u</i>	C112	SINGHAL, P., et al., "Ultrasensitive voltammetric detection of underivatized oligonucleotides and DNA," <i>Anal. Chem.</i> 69(23):4828-4832 (Dec. 1997).		
	C113	SLOOP, F., et al., "Metalloorganic labels for DNA sequencing and mapping," <i>N. J. Chem.</i> 18(3):317-326 (1994).		
	C114	SOUTHERN, E.M., et al., "Arrays of complementary oligonucleotides for analysing the hybridisation behaviour of nucleic acids," <i>Nucleic Acids Res.</i> 22(8):1368-1373 (Apr. 1994).		
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	C116	STROBEL, S., et al., "Site-specific cleavage of a yeast chromosome by oligonucleotide-directed triple-helix formation," <i>Science</i> 249(4964):73-75 (Jul. 1990).		
	C117	SU, H., et al., "Interfacial nucleic acid hybridization studied by random primer ³² P labelling and liquid-phase acoustic network analysis," <i>Anal. Chem.</i> 66(6):769-777 (Mar. 1994).		
	C118	TELSER, J., et al., "DNA duplexes covalently labeled at two sites: synthesis and characterization by steady-state and time-resolved optical spectroscopies," <i>J. Am. Chem. Soc.</i> 111(18):7226-7232 (Aug. 1989).		
	C119	TELSER, J., et al., "DNA oligomers and duplexes containing a covalently attached derivative of tris(2,2'-bipyridine)ruthenium(II): synthesis and characterization by thermodynamic and optical spectroscopic measurements," <i>J. Am. Chem. Soc.</i> 111(18):7221-7226 (Aug. 1989).		
	C120	TIMOFEEV, E., et al., "Methidium Intercalator Inserted into synthetic oligonucleotides," <i>Tetrahedron Lett.</i> 37(47):8467-8470 (Nov. 1996).		
	C121	TIMOFEEV, E., et al., "Regioselective immobilization of short oligonucleotides to acrylic copolymer gel," <i>Nucleic Acids Res.</i> 24(16):3142-3148 (Aug. 1996).		
	C122	TOUR, J., "Conjugated macromolecules of precise length and constitution. organic synthesis for the construction of nanoarchitectures," <i>Chem. Rev.</i> 96(1):537-553 (Feb. 1996).		
	C123	TOUR, J., et al., "Self-assembled monolayers and multilayers of conjugated thiols, α - ω -dithiols, and thioacetyl-containing adsorbates. Understanding attachments between potential molecular wires and gold surfaces," <i>J. Am. Chem. Soc.</i> 117(37):9529-9534 (Sep. 1995).		
	C124	TULLIUS, T.D., et al., "Iron(II) EDTA used to measure the helical twist along any DNA molecule," <i>Science</i> 230(4726):679-681 (Nov. 1985).		
	C125	TURRO, N., et al. "Photoelectron transfer between molecules adsorbed in restricted spaces," <i>Photochem. Convers. Storage Sol. Energy, Proc. Int. Conf., 8th Conf.</i> 8:121-139 (1990).		
<i>✓</i>	C126	TURRO, N., et al., "Molecular recognition and chemistry in restricted reaction spaces. Photophysics and photoinduced electron transfer on the surfaces of micelles, dendrimers, and DNA," <i>Acc. Chem. Res.</i> 24(11):332-340 (Nov. 1991).		

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<i>M</i>	C127	UOSAKI, K., et al., "A self-assembled monolayer of ferrocenylalkane thiols on gold as an electron mediator for the reduction of Fe(III)-EDTA in solution," <i>Electrochim. Acta.</i> 36(11/12):1799-1801 (1991).		
	C128	VAN NESS, J., et al., "A versatile solid support system for oligodeoxynucleotide probe-based hybridization assays," <i>Nucleic Acids Res.</i> 19(12):3345-3349 (Jun. 1991).		
	C129	VELEV, O., et al., "In situ assembly of colloidal particles into miniaturized biosensors," <i>Langmuir</i> 15(11):3693-3698 (May 1999).		
	C130	WATSON, K., et al., "Hybrid nanoparticles with block copolymer shell structures," <i>J. Am. Chem. Soc.</i> 121(2):462-463 (Jan. 1999).		
	C131	WEBER, K., et al., "Voltammetry of redox-active groups irreversibly adsorbed onto electrodes. treatment using the marcus relation between rate and overpotential," <i>Anal. Chem.</i> 66:3164-3172 (Oct. 1994).		
	C132	WILLIAMS, J., et al., "Studies of oligonucleotide interactions by hybridisation to arrays: the influence of dangling ends on duplex yield," <i>Nucleic Acids Res.</i> 22(8):1365-1367 (Apr. 1994).		
	C133	WINKLER, J., et al., "Electron transfer in ruthenium-modified proteins," <i>Chem. Rev.</i> 92(3):369-379 (May 1992).		
	C134	WOOD, J., et al., "Time-frequency transforms: a new approach to first heart sound frequency dynamics," <i>IEEE Trans. Biomed. Eng.</i> 39(7):730-740 (Jul. 1992).		
	C135	XU, X., et al., "Immobilization and hybridization of DNA on an aluminum(III) alkanebisphosphonate thin film with electrogenerated chemiluminescent detection," <i>J. Am. Chem. Soc.</i> 117(9):2627-2631 (Mar. 1995).		
	C136	XU, X., et al., "Immobilization of DNA on an aluminum(III) alkanebisphosphonate thin film with electrogenerated chemiluminescent detection," <i>J. Am. Chem. Soc.</i> 116(16):8386-8387 (Sep. 1994).		
	C137	YANG, H., et al., "Growth and characterization of metal(II) alkanebisphosphonate multilayer thin films on gold surfaces," <i>J. Am. Chem. Soc.</i> 115(25):11855-11862 (Dec. 1993).		
	C138	YERSHOV, G., et al., "DNA analysis and diagnostics on oligonucleotide microchips," <i>Proc. Natl. Acad. Sci. USA</i> 93(10):4913-4918 (May 1996).		
	C139	ZHOU, Q., et al., "Fluorescent chemosensors based on energy migration in conjugated polymers: The molecular wire approach to increased sensitivity," <i>J. Am. Chem. Soc.</i> 117(50):12593-12602 (Dec. 1995).		

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